

01799

1995/01/00

(TOTAL)

Global Launch Services Supply and Demand Analysis

U.S. LAUNCH VEHICLES

Category	U.S. LAUNCH VEHICLES						(TOTAL)
	1995	1996	1997	1998	1999	2000	
Pegasus/Taurus/LLV: Requirements	10	7	6	2	4	3	2
Capacity	13	14	16	18-22	24-28	30-34	30-34
Delta 2 East Coast: Requirements	4 (4)	5 (5)	8 (8)	4 (5)	6 (7)	4 (5)	4 (5)
Capacity	4	8	12	12	12	8	12
Delta 2 West Coast: Requirements	2 (2)	3 (3)	5 (5)	2 (3)	0 (0)	3 (3)	1 (3)
Capacity	4	6	6	6	5	4	6
Atlas 1/2/2AS East Coast: Requirements	10 (10)	7 (7)	6 (6)	2 (2)	3 (4)	3 (4)	0 (2)
Capacity	8	9	10	10	10	10	10
Atlas 1/2/2AS West Coast: Requirements	0	0	0	3	1	2	1 (2)
Capacity	0	1	4	4	4	4	4

NOTE: Only firm and probable requirements are shown for both government and commercial missions. Potential missions in the out-years are not shown. Projected IEO commercial requirements of at least 4 to 5 launches per year from 1997 on are not shown.

Numbers in parentheses represent revised launch projections by DOD
~~for Delta 2 AS taking into account further review of likely U.S. Government launches.~~

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From: *John D. Goss, President, Space Systems*
 Proton: *Not in current offering*
 Ariane: *Not in current offering*
 Long March: *Not in current offering*
 Ariane 4: *11/81 to 94*
 Ariane 5: *1996*
 Long March 2: *1995*
 Long March 2E/3B: *1996*
 Ariane 4: *1996*
 Ariane 5: *1997*
 Ariane 4: *1997*
 Ariane 5: *1998*
 Ariane 4: *1999*
 Ariane 5: *2000*
 Ariane 4: *2001*

Category	FOREIGN LAUNCH VEHICLES				Proton				Ariane 4			
Ariane 4: Requirements	0	2	1	1	0	1	1	3	?	?	?	*
Ariane 4: Capacity	0	4	6	8 to 10	10	8	8	10	8 to 10	8	8	
Ariane 5: Requirements	0	2	1	1	0 to 1	0	3	0	?	?	?	
Ariane 5: Capacity	0	4	6	8 to 10	10	8	8	10	8 to 10	8	10	X
Long March 2E/3B: Requirements	6	4 to 5	1	1	1	1	1	1	1	1	1	..
Long March 2E/3B: Capacity	6	6	6	6	6	6	6	6	6	6	6	
Long March 2C, etc: Requirements	0	0 to 1	0	3	3	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	0
Long March 2C, etc: Capacity	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	4 to 7	
Proton: Requirements	16?	?	?	?	?	?	?	?	?	?	?	...
Proton: Capacity	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	13 plus	...

- Reflects gradual reduction of Ariane 4 capacity
- Maximum theoretical (surge) capacity has been estimated at 7 to 8 GEO launches per year
- Estimate for nominal capacity using new-built Protons; actual capacity may be higher